

Executive Summary: Active Directory Homelab

Author: Kingsley Otoo

Project Overview

Built an on-prem Active Directory (AD) lab environment in VMware to simulate real-world enterprise administration. The lab includes domain services, OUs, users, groups, GPOs, automation, and reporting.

Key Deliverables

- Windows Server 2022 promoted to Domain Controller
- Static IP & DNS configuration for AD services
- Structured OU hierarchy (IT, HR, Sales)
- Bulk user and group creation with PowerShell
- Password policy and security enforcement via GPO
- Backups and reports generated for documentation

Skills Demonstrated

- Active Directory administration
- PowerShell scripting
- Networking (DNS, IP addressing)
- Group Policy management
- Documentation and reporting

This lab demonstrates enterprise IT administration skills and readiness for real-world infrastructure roles.